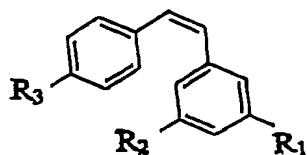


## CLAIMS

What is claimed is:

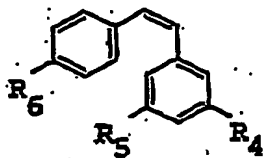
1. A resveratrol derivative having the formula;



wherein:

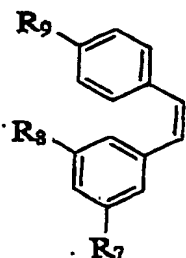


2. A resveratrol derivative having the formula;



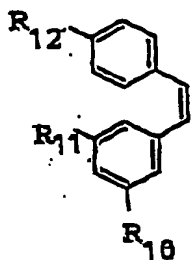
wherein  $R_4 = R_5 = -\text{OCH}_3$  and  $R_6 = -\text{OH}$ .

3. A resveratrol derivative having the formula:



wherein  $R_7 = R_8 = -\text{OH}$  and  $R_9 = -\text{OCH}_3$ .

4. A resveratrol derivative having the formula:

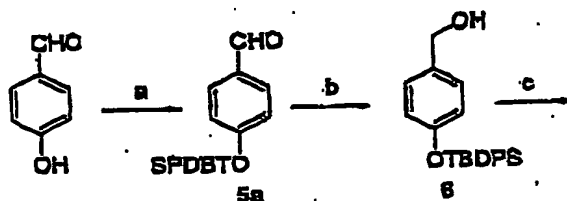
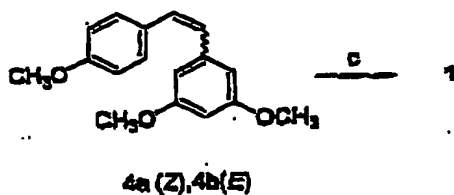


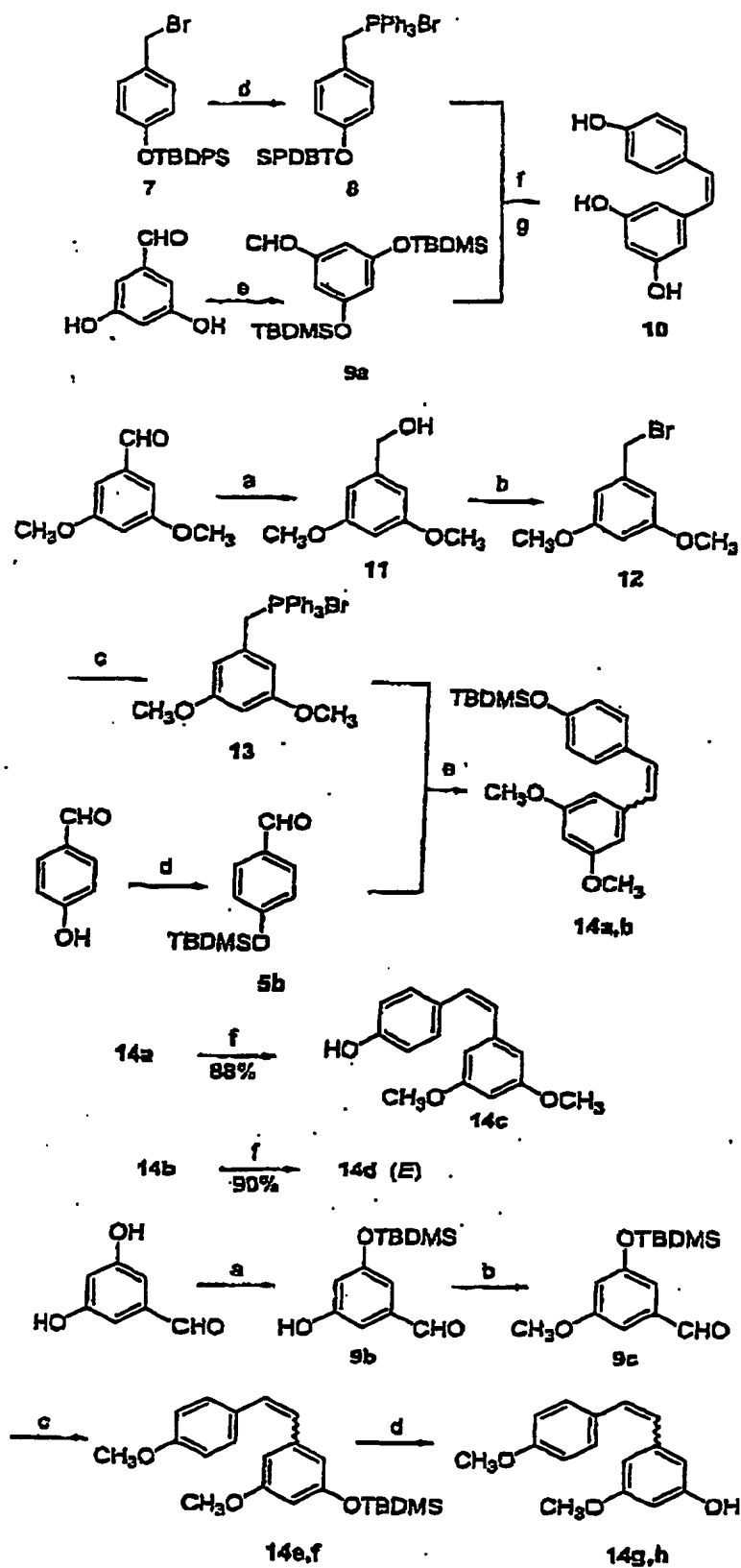
selected from the group consisting of compounds wherein:

- a)  $R_{10} = R_{11} = -OCH_3$  and  $R_{12} = -O(PO)(OBn)_2$ ; and  
 b)  $R_{10} = R_{11} = -OCH_3$  and  $R_{12} = -O(PO)(ONa)_2$ .

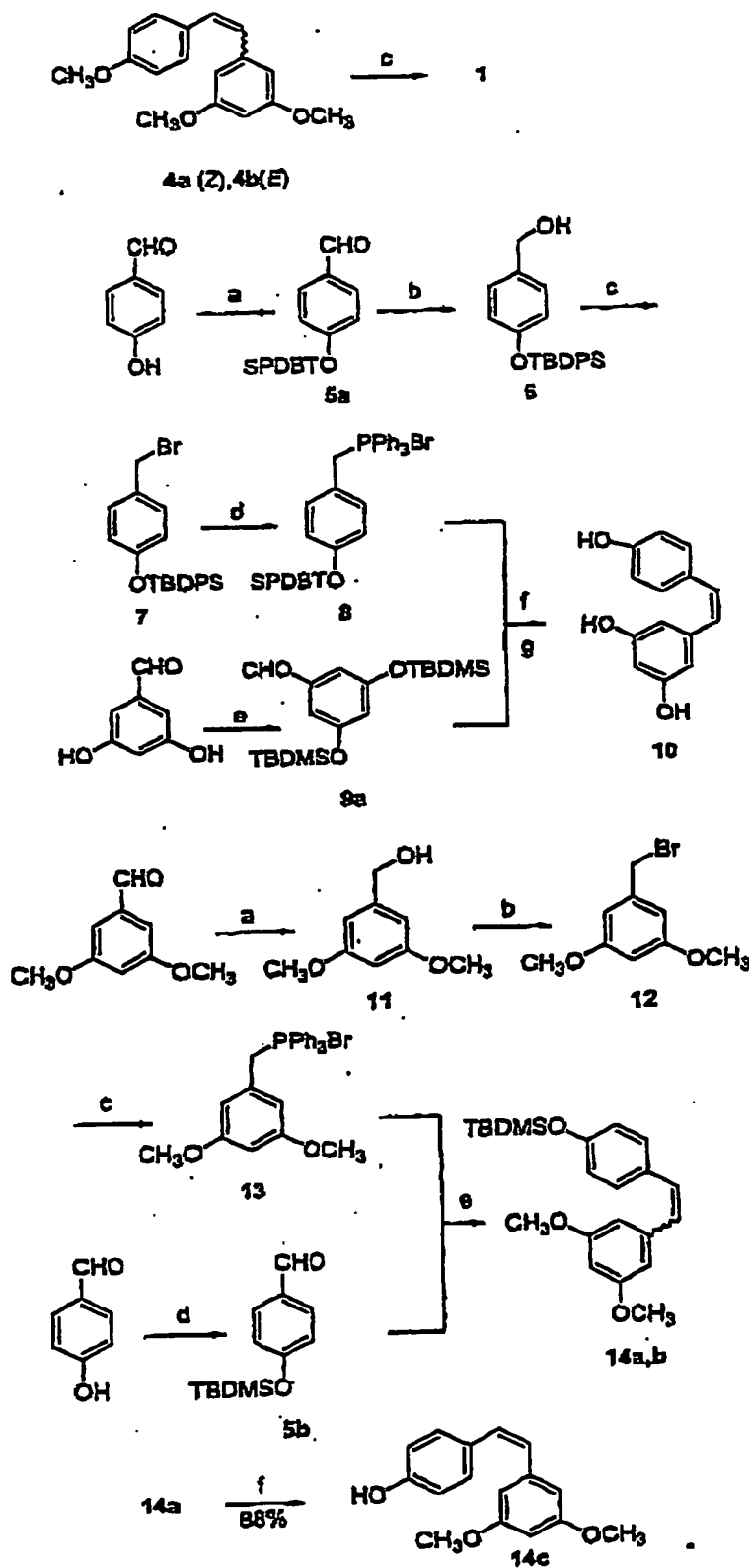
5. [Deleted]

6. A method for synthesizing the resveratrol derivative of claim 1 wherein  $R_1 = -OH$  and  $R_2 = R_3 = -OCH_3$ , comprising the following steps:

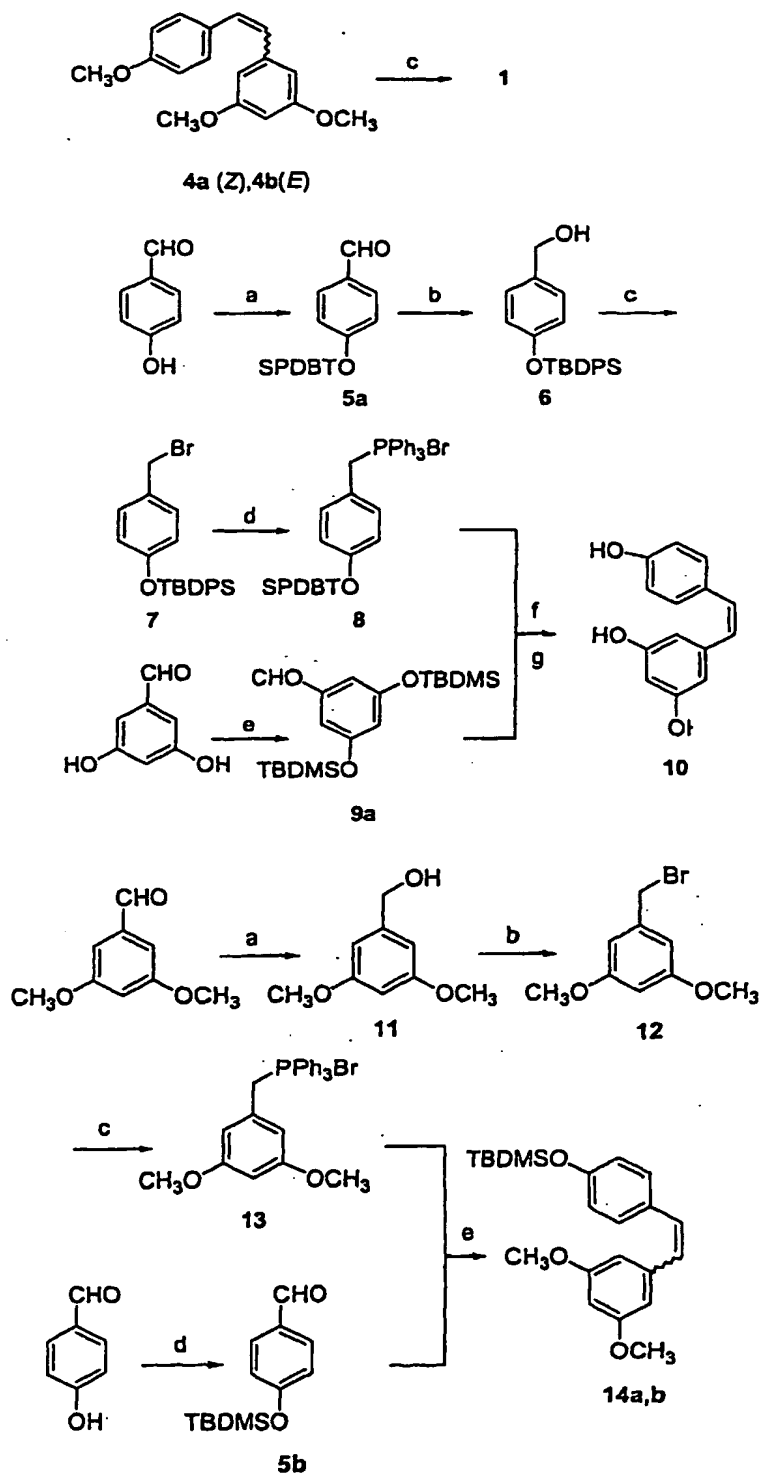


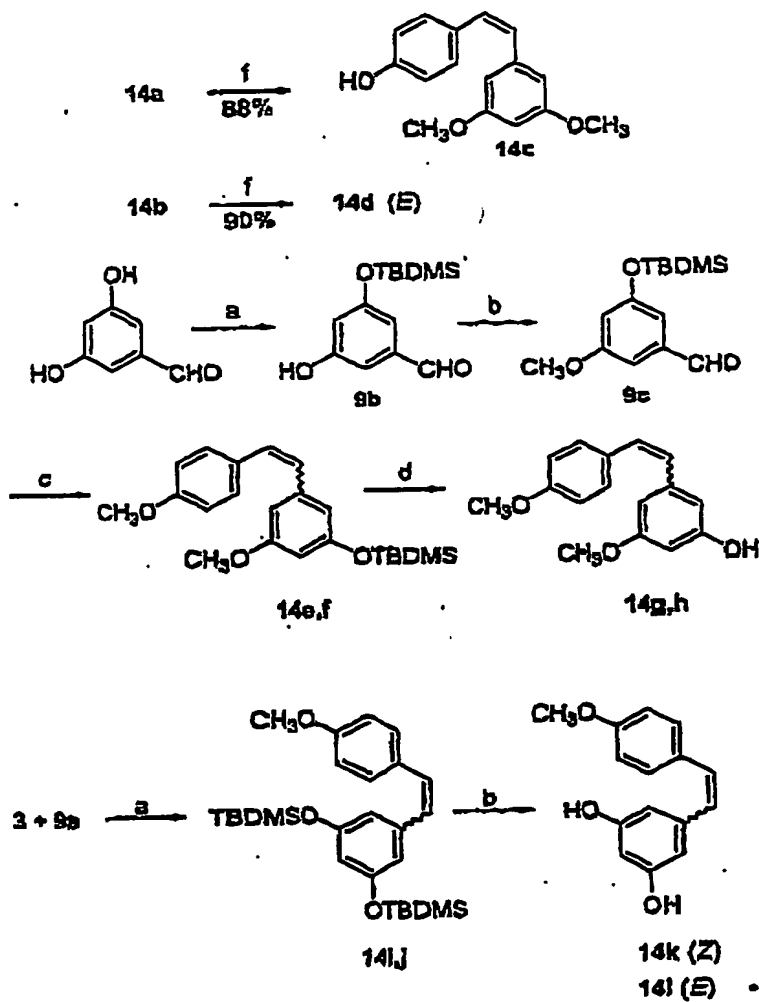


7. A method for synthesizing the resveratrol derivative of claim 2 comprising the following steps:

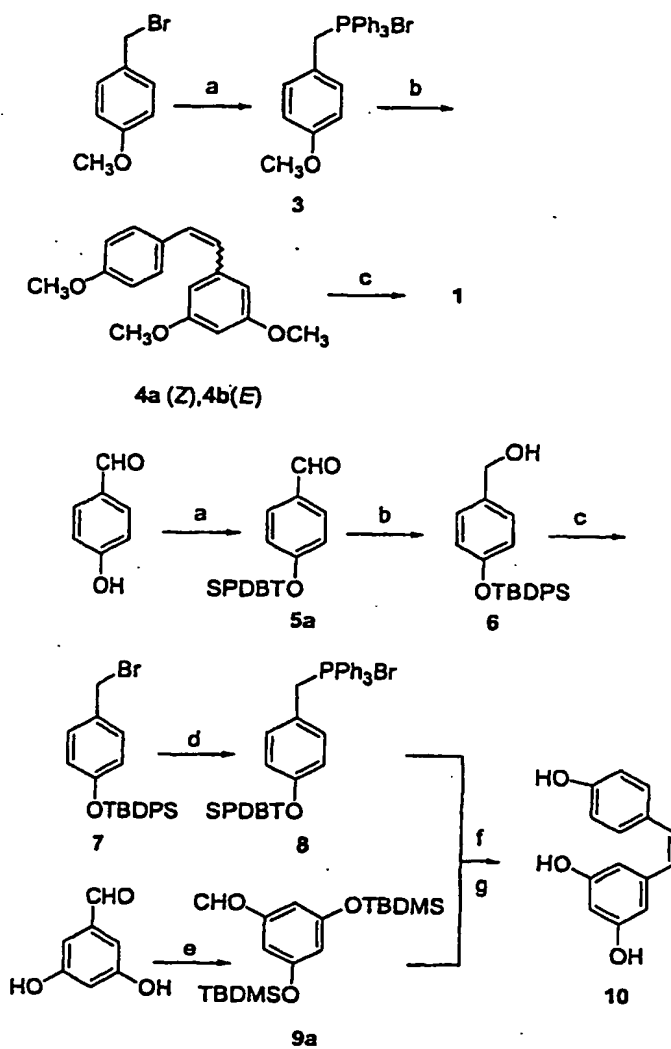


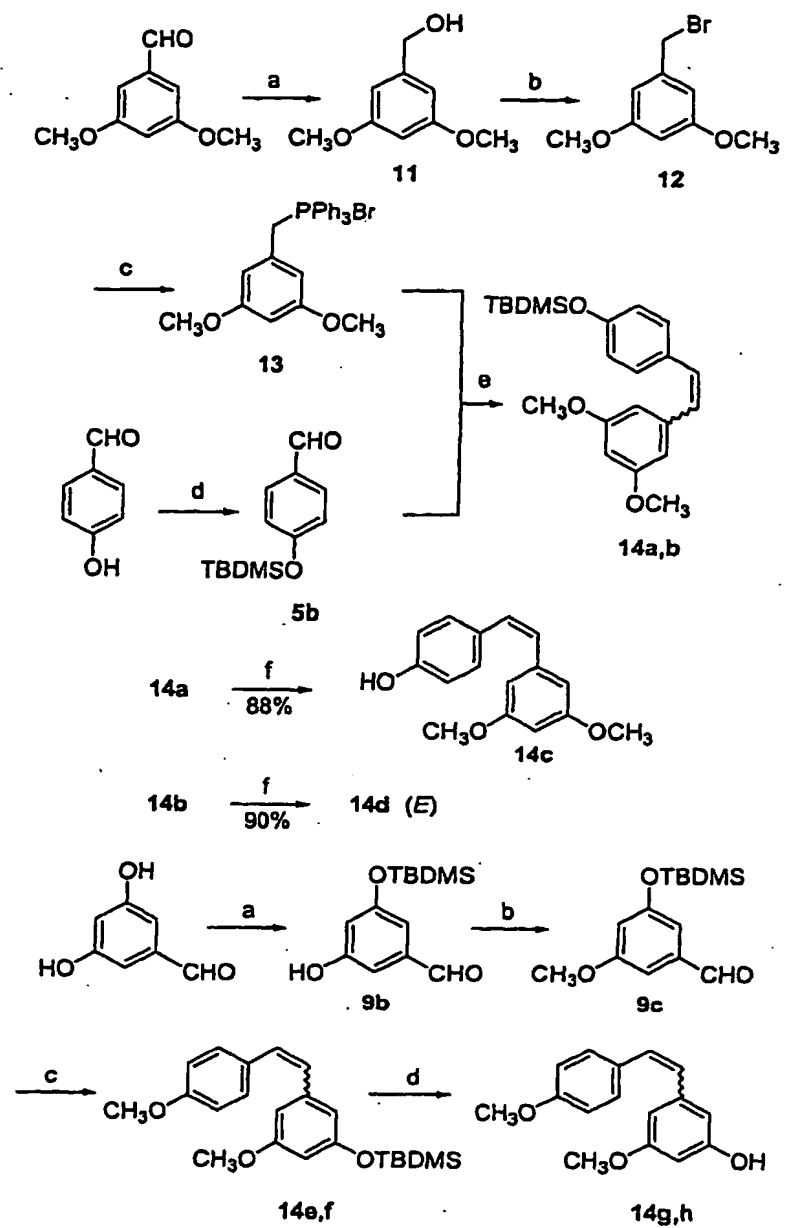
8. A method for synthesizing the resveratrol derivative of claim 3 comprising the following steps:

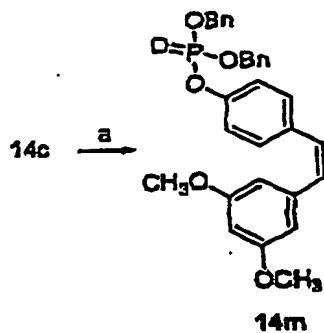
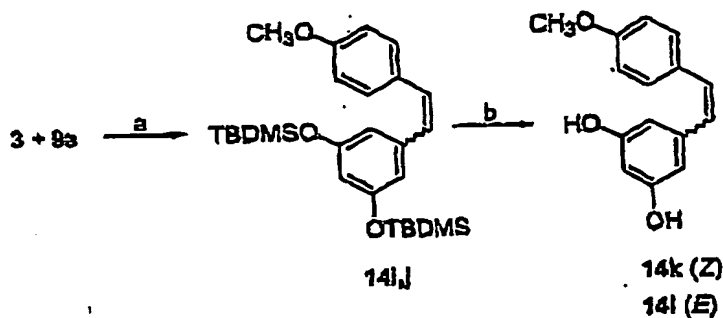




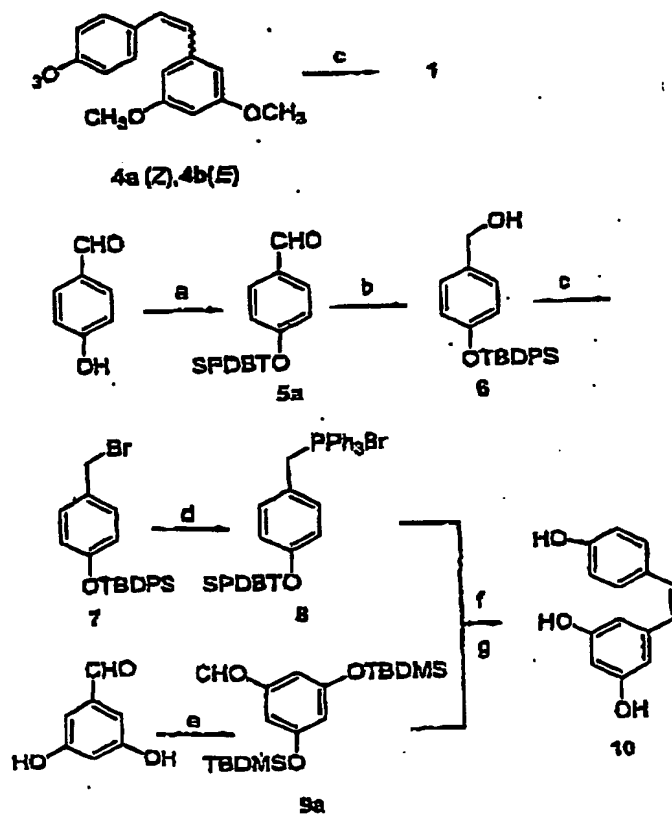
9. A method for synthesizing the resveratrol derivative of claim 4 wherein  $R_{10} = R_{11} = -OCH_3$  and  $R_{12} = -O(PO)(OBn)_2$ , comprising the following steps:

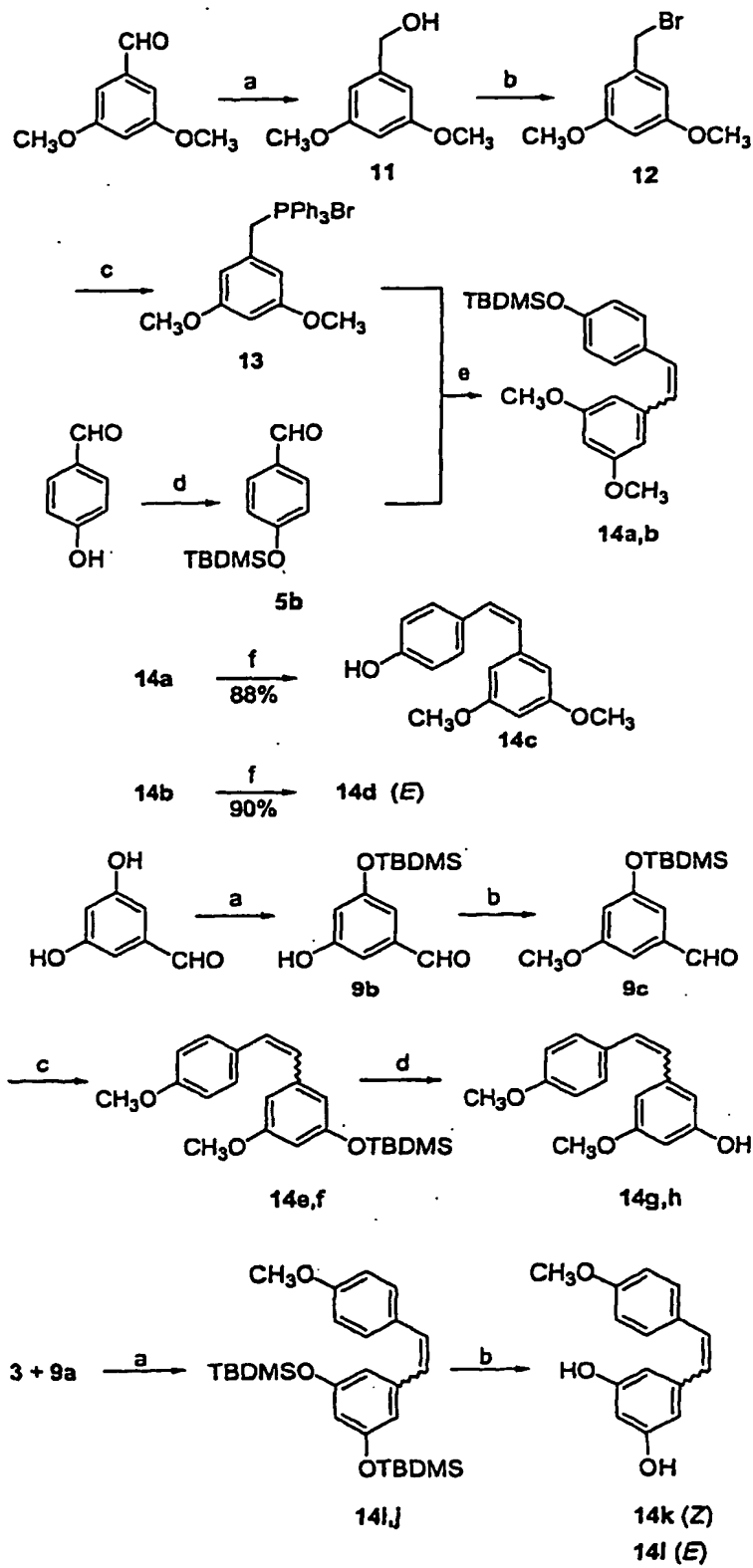


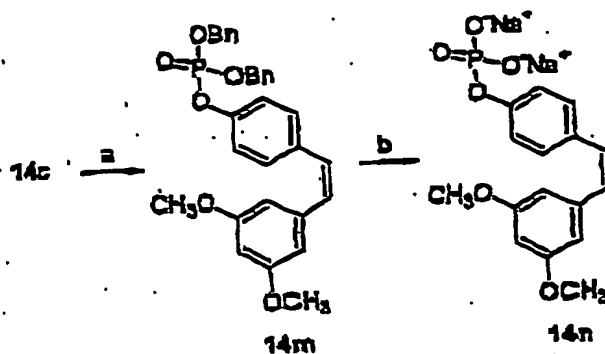




10. A method for synthesizing the resveratrol derivative of claim 4 wherein  $R_{10} = R_{11} = -OCH_3$  and  $R_{12} = -O(PO)(ONa)_2$ , comprising the following steps:







11. A pharmaceutical composition comprising the compound of claim 1, or a pharmaceutically acceptable salt thereof.
12. A pharmaceutical composition comprising the compound of claim 2, or a pharmaceutically acceptable salt thereof.
13. A pharmaceutical composition comprising the compound of claim 3, or a pharmaceutically acceptable salt thereof.
14. A pharmaceutical composition comprising the compound of claim 4, or a pharmaceutically acceptable salt thereof.
15. A method for treating humans and mammals afflicted with cancer, comprising administering a physiologically effective amount of the compound of claim 1 or its trans isomer, or a pharmaceutically acceptable salt thereof.

16. A method for treating humans and mammals afflicted with cancer, comprising administering a physiologically effective amount of the compound of claim 2, or a pharmaceutically acceptable salt thereof.

17. A method for treating humans and mammals afflicted with cancer, comprising administering a physiologically effective amount of the compound of claim 3 or its trans isomer, or a pharmaceutically acceptable salt thereof.

18. A method for treating humans and mammals afflicted with cancer, comprising administering a physiologically effective amount of the compound of claim 4, or a pharmaceutically acceptable salt thereof.

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